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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/006,551	11/30/2001	Christopher D.S. Donham	NVIDP064/P000286	2643
28875	7590 07/19/2004		EXAMINER	
SILICON VALLEY INTELLECTUAL PROPERTY GROUP			TRAN, TAM D	
	P.O. BOX 721120 SAN JOSE, CA 95172-1120		ART UNIT	PAPER NUMBER
,			2676	, ,
			DATE MAILED: 07/19/2004	ı //

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/006,551	DONHAM ET AL.			
Office Action Summary	Examiner	Art Unit			
	Tam D Tran	2676			
The MAILING DATE of this communi	cation appears on the cover sheet	with the correspondence address			
A SHORTENED STATUTORY PERIOD FO THE MAILING DATE OF THIS COMMUNION.  - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comm.  - If the period for reply specified above is less than thirty (30.)  - If NO period for reply is specified above, the maximum states a specified above the maximum states.  - Failure to reply within the set or extended period for reply any reply received by the Office later than three months at earned patent term adjustment. See 37 CFR 1.704(b).  Status	CATION. of 37 CFR 1.136(a). In no event, however, may unication. b) days, a reply within the statutory minimum of ututory period will apply and will expire SIX (6) N will, by statute, cause the application to become	y a reply be timely filed thirty (30) days will be considered timely. MONTHS from the mailing date of this communication. e ABANDONED (35 U.S.C. § 133).			
<u></u>	d an 04 May 2004				
· <u> </u>	Responsive to communication(s) filed on <u>04 May 2004</u> .  This action is <b>FINAL</b> .  2b) This action is non-final.				
3) Since this application is in condition	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ☑ Claim(s) <u>1-29</u> is/are pending in the a 4a) Of the above claim(s) is/ar 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>1-29</u> is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restrict	re withdrawn from consideration.				
Application Papers					
9)☐ The specification is objected to by the	Examiner.				
	D) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.				
Applicant may not request that any object					
Replacement drawing sheet(s) including 11) The oath or declaration is objected to	·	ing(s) is objected to. See 37 CFR 1.121(d). hed Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim to a) All b) Some * c) None of:  1. Certified copies of the priority of the certified copies of the priority of the certified copies of the certified copies of application from the Internation * See the attached detailed Office action	documents have been received. documents have been received ir of the priority documents have be nal Bureau (PCT Rule 17.2(a)).	n Application No en received in this National Stage			
Attachment(s)	" <b>□</b>	(DTO (12))			
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Dotice of Draftsperson's Patent Drawing Review (P'</li> </ol>		w Summary (PTO-413) No(s)/Mail Date			
3) Information Disclosure Statement(s) (PTO-1449 or Paper No(s)/Mail Date		of Informal Patent Application (PTO-152)			

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-29 are rejected under 35 U.S.C. 102(e) as being anticipated by Nguyen et al. (US2002/0101427 A1).

- 2. In regard to claim 1, 24-27, Nguyen teaches a method and system for retrieving instructions from memory utilizing a texture module in a graphics pipeline (graphic data stream), paragraph 5, 6 page 1, comprising: (a) sending an instruction request to memory utilizing a texture module in a graphics pipeline; see paragraph 25 page 2, paragraph 36 page 3; and (b) receiving instructions from the memory in response to the instruction request utilizing the texture module in the graphics pipeline. See Fig.3, paragraph 25 page 2, paragraph 32 page 3.
- 3. In regard to claim 2, Nguyen teaches a method and system for retrieving instructions from memory utilizing a texture module in a graphics pipeline, further comprising sending a texture request to memory utilizing the texture module in the graphics pipeline. See Fig.3, paragraph 32 page 3.

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4. In regard to claim 3, Nguyen teaches a method and system for retrieving instructions from memory utilizing a texture module in a graphics pipeline, and further comprising receiving texture information from the memory in response to the texture request utilizing the texture module in the graphics pipeline. See paragraph 32 page 3.

- 5. In regard to claim 4, Nguyen teaches a method and system for retrieving instructions from memory utilizing a texture module in a graphics pipeline, wherein the memory includes a frame buffer. See paragraph 28 page 3.
- 6. In regard to claim 5, Nguyen teaches a method and system for retrieving instructions from memory utilizing a texture module in a graphics pipeline, wherein the memory includes direct random access memory (DRAM). See paragraph 46 page 4.
- 7. In regard to claim 6, Nguyen teaches a method and system for retrieving instructions from memory utilizing a texture module in a graphics pipeline, wherein the instructions are adapted for controlling a texture environment module coupled to the texture module. See paragraph 25 page 2.
- 8. In regard to claim 7, Nguyen teaches a method and system for retrieving instructions from memory utilizing a texture module in a graphics pipeline, wherein the instructions control the manner in which the texture environment module processes the texture information. See paragraph 26 page 2.
- 9. In regard to claim 8, Nguyen teaches a method and system for retrieving instructions from memory utilizing a texture module in a graphics pipeline, and further comprising receiving initial instructions from a rasterizer module coupled to the texture module. See paragraph 32 page 3.

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10. In regard to claim 9, Nguyen teaches a method and system for retrieving instructions from memory utilizing a texture module in a graphics pipeline, wherein the initial instructions control at least the sending of the instruction request by the texture module. See paragraph 32 page 3.

- 11. In regard to claim 10, Nguyen teaches a method and system for retrieving instructions from memory utilizing a texture module in a graphics pipeline, and further comprising temporarily storing the instructions and the texture information in cache. See paragraph 19 page 2.
- 12. In regard to claim 11, Nguyen teaches a method and system for retrieving instructions from memory utilizing a texture module in a graphics pipeline, wherein the cache is resident on the texture module. See paragraph 19 page 2.
- 13. In regard to claim 12, Nguyen teaches a method and system for retrieving instructions from memory utilizing a texture module in a graphics pipeline, wherein each piece of texture information and each of the instructions are of a similar size in the memory. See paragraph 46 page 4.
- 14. In regard to claim 13, Nguyen teaches a method and system for retrieving instructions from memory utilizing a texture module in a graphics pipeline, and further comprising controlling the texture module utilizing a shader module coupled thereto. See paragraph 30 page 3.
- 15. In regard to claim 14, Nguyen teaches a method and system for retrieving instructions from memory utilizing a texture module in a graphics pipeline, wherein the shader module

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controls the sending of the instruction request and the texture request by the texture module. See paragraph 30 page 3.

- 16. In regard to claim 15, Nguyen teaches a method and system for retrieving instructions from memory utilizing a texture module in a graphics pipeline, wherein the shader module processes a plurality of pixels with the texture information based on the instructions. See paragraph 32 page 3.
- 17. In regard to claim 16, Nguyen teaches a method and system for retrieving instructions from memory utilizing a texture module in a graphics pipeline, wherein the shader module is capable of reusing the texture information in order to request further texture information from the memory. See paragraph 32 page 3.
- 18. In regard to claim 17, Nguyen teaches a method and system for retrieving instructions from memory utilizing a texture module in a graphics pipeline, and further comprising ceasing the processing upon the receipt of a terminate instruction. See paragraph 32 page 3.
- 19. In regard to claim 18, Nguyen teaches a method and system for retrieving instructions from memory utilizing a texture module in a graphics pipeline, wherein a complete instruction set is received in response to the instruction request. See paragraph 32 page 3.
- 20. In regard to claims 19, 20, 21, Nguyen teaches a method and system for retrieving instructions from memory utilizing a texture module in a graphics pipeline, wherein a partial instruction set is received in response to the instruction request. See paragraph 32 page 3.
- 21. In regard to claims 22, 23, Nguyen teaches a method and system for retrieving instructions from memory utilizing a texture module in a graphics pipeline, wherein the texture module is adapted for operating in a plurality of different modes. See paragraph 30 page 30.

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In regard to claims 28, 29, Nguyen teaches a method for retrieving instructions from 22. memory, comprising:(a) receiving a plurality of preliminary instructions from a rasterizer module utilizing a shader module/texture module (texture manager) coupled thereto; (b) sending an instruction request to memory utilizing a texture module coupled to the shader module/ texture module; see paragraph 30 page 3; (c) receiving additional instructions from the memory in response to the instruction request utilizing the texture module; (d) caching the additional instructions on the texture module; (e) sending a texture request to memory utilizing the texture module in accordance with the additional instructions; (f) receiving texture information from the memory in response to the texture request utilizing the texture module; (g) caching the texture information on the texture module; see paragraph 32 page 3; (h) processing a plurality of pixels (screen resolutions differ from the resolution of texture map corresponding to plurality of pixels with texture information) with the texture information utilizing the shader module in accordance with the additional instructions; (i) repeating (b) - (h) in accordance with the additional instructions; and (j) outputting the processed pixels upon receipt of additional instructions that include a terminate instruction. See paragraph 32 page 3.

## Conclusion

23. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Tam D. Tran** whose telephone number is **703-305-4196**. The examiner can normally be reached on MON-FRI from 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella can be reached on 703-308-6829.

Any response to this action should be mailed to:

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Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered response should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Tam Tran

Examiner

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Kee M. Tung

Primary Examiner